

corrected for certain typographical errors found in the originally submitted application. No new matter has been added by these amendments. The present application incorporates the original filing including any amendments made in the international filing. There was no amendment in the International Application, and there is no annex to the International Preliminary Examination Report because a Demand for an IPER was not filed. The specification is an English translation of an originally Chinese language document.

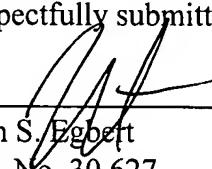
The Claims have been amended so as to conform with U.S. requirements and so as to remove multiple dependent claims. The Abstract has been amended so as to conform to U.S. filing requirements.

Applicant respectfully requests that the present Amendment be entered prior to an initial Official Action on the present application.

5-4-06
Date

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CLAIMS

I claim:

1. (Currently amended) An improved structure of An assembled shelf comprising:

,the a main frame being comprised of comprises two vertical side racks and several sets of shelves; and the each shelf is being placed between the said two vertical side racks, and the each vertical side rack made by being comprised of a vertical bar and horizontal bar, its feature includes:

a wherein said vertical bar of the said vertical side rack includes is comprised of a main bar and an inner/outer a secondary bar, and the inner/outer said secondary bar is being placed inside and outside of the said main bar, and the said main bar is being spaced between the inner/outer said secondary bar, and the space is therebetween being positioned and formed by the said horizontal bar;

the wherein sides of the each shelf that are corresponding to the vertical side rack has have a frame; and a vertical groove is, placed between two ends of the said frame, and the a position of the groove is being connected with the to an inner second bar of the said vertical side rack mentioned above, and the a surface of the said frame is being pushed against the a side of the said main bar,

by so doing to achieve the, positioning of the each shelf and two vertical side racks being positioned, and the an outer secondary bar provides the providing an extendable vertical side rack for the each shelf.

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2. (Currently amended) The improved structure assembled shelf defined in Claim 1, wherein the a vertical section of the frame on both sides of each shelf ~~can be has a~~ C shape.

3. (Currently amended) The improved structure assembled shelf defined in Claim 2, wherein said further comprising:

a reinforced stand ~~is being positioned~~ in place; and the reinforced stand ~~has having~~ a long board with a predetermined width, ~~and the~~ a top end of its a short end ~~extends thereof~~ extending as a horizontal surface, ~~and the~~ said reinforced stand ~~extends extending~~ a bent section on both ends along ~~the~~ a long end thereof, so that ~~the~~ said reinforced stand ~~may stands standing~~ from the short end thereof;

wherein the C shaped frame on both sides of the each shelf ~~is open on~~ a shelf plank, which form forming a frame space between ~~the~~ a bottom of the said shelf plank to ~~the~~ a bottom of the said frame, and ~~the~~ said reinforced stand having a bent section insertable into said frame space ~~is for the~~ bent section of the reinforced stand to insert, so that ~~the~~ said reinforced stand ~~is placed between~~ the said frame on both sides, ~~and the~~ a top horizontal support at ~~the~~ a top side of the said reinforced stand supports the supporting a bottom of the said layer board, and by so doing, it forms forming a reinforced structure, so that ~~the~~ said shelf plank can handle greater handling increased weight.

4. (Currently amended) The improved structure assembled shelf defined in Claim 1, wherein the said main bar of the said vertical side racks and the inner/outer said secondary bar ~~can be is~~ a circular bar, so that ~~the~~ a horizontal section of the groove of the frame ~~can be being~~ semi-circular.

5. (Currently amended) The improved structure assembled shelf defined in Claim 1, wherein the said frame on two sides of the each shelf ~~may have has~~ a corresponding bent slab, ~~and the~~ a top

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and bottom of the bent slab can be being a horizontal slab, and the bent slab being like a step by having a vertical slab is connected between the top and bottom to make the section of the bent slab like a step; so that the thereof, a top of the said frame on two sides of the each shelf form forming a bent edge, and the said horizontal slab of the top end of the bent slab is being connected to the a bottom of the said bent edge, so that forming a C insert groove is formed at bottom edge of said bent edge, and the a bottom end of the said bent slab sticks out the sticking from an end of the said bent edge, so that an insert groove can be being placed on the corresponding sides of the said shelf plank.

6. (Currently amended) An improved structure of assembled shelf, wherein the comprising:

a main frame comprises being comprised of two vertical side racks and several sets of shelves; and the each shelf is being placed between the said two vertical side racks, and the fixed frame (connected by welding) is the each vertical side rack made by being comprised of a vertical bar and horizontal bar and forming a fixed frame connected by welding, the said horizontal bar is being placed on the a pre-determined height of the each shelf for the shelf, its feature includes:

— a; wherein said vertical bar of the vertical side rack includes is comprised of a main bar and a secondary bar, and the main and secondary bar is being placed in parallel and spaced in between, and the space is being formed by the said horizontal bar;

the wherein sides of the each shelf that are corresponding to the vertical side rack has have a frame; and a vertical groove is placed between two ends of the said frame, and the a position of the groove is being connected with the main and secondary bar mentioned above;—

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by so doing to achieve the positioning of the each shelf and two vertical side racks being positioned, and the main and secondary bars provide the providing an extendable vertical side rack for the each shelf.

7. (Currently amended) The improved structure assembled shelf defined in Claim 6, wherein the a vertical section of the frame placed on two sides of each shelf can be is a \subset shape.

8. (Currently amended) The improved structure assembled shelf defined in Claim 7, wherein further comprising:

a reinforced stand is being positioned in place; and the reinforced stand has having a long board with a predetermined width, and the a top end of its a short end extends thereof extending as a horizontal surface, and the said reinforced stand extends extending a bent section on both ends along the a long end of said long board, so that the said reinforced stand may stands standing from the said short end;

wherein the \subset shaped frame on both sides of the each shelf is open on a shelf plank, which form forming a frame space between the a bottom of the said shelf plank to the a bottom of the said frame, and the said reinforced stand having a bent section insertable into said frame space is for the bent section of the reinforced stand to insert, so that the said reinforced stand is placed between the said frame on both sides, and the a top horizontal support at the a top side of the said reinforced stand supports the supporting a bottom of the said layer board, and by so doing, it forms forming a reinforced structure, so that the said shelf plank can handle greater handling increased weight.

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9. (Currently amended) The improved structure assembled shelf defined in Claim 6, wherein the said main bar of the said vertical side racks and the inner/outer said secondary bar can be is a circular bar, so that the, a horizontal section of the groove of the frame can be being semi-circular.

10. (Currently amended) The improved structure assembled shelf defined in Claim 6, wherein the said frame on two sides of the each shelf may have has a corresponding bent slab, and the a top and bottom of the bent slab can be being a horizontal slab, and the bent slab being like a step by having a vertical slab is connected between the top and bottom to make the section of the bent slab like a step, so that the thereof, a top of the said frame on two sides of the each shelf form forming a bent edge, and the said horizontal slab of the top end of the bent slab is being connected to the a bottom of the said bent edge, so that forming a C insert groove is formed at bottom edge of said bent edge, and the a bottom end of the said bent slab sticks out the sticking from an end of the said bent edge, so that an insert groove can be being placed on the corresponding sides of the said shelf plank.

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ABSTRACT OF THE DISCLOSURE

An improved assembled shelf is composed of at least a shelf unit, each shelf unit is composed of double stand side frames (10) and multi-layer frames (20), the multi-layer frames horizontally locate between the double stand side frames (10) and are parallel in vertical direction. Each stand side frame (10) is composed of transverse bar (40) and stand bar (30), the transverse bar and the stand bar are fixed with each other. The stand bar (30) is composed of a main bar (31) and at least an assistant bar (32, 33), the main bar (31) and the assistant bar (32, 33) are parallel and there is a space between the main bar and the assistant bar, the transverse bar (40) traverses the space and is fixed. There are planks (50) on the both sides of each layer frame (20) and there are stand trans-grooves (51) on the both sides of each plank (50), the grooves just assemble with the main bar and the assistant bar of each stand bar. So the improved shelf can be assembled without other orientational pieces and may extend transversally. The present invention provides an improved structure of the assembled shelf. The invention includes a main frame having two vertical side racks and several sets of shelves. Each shelf is placed inside the two vertical side racks. There is a vertical bar of the vertical side rack, which includes a main bar and at least one secondary bar. The secondary bar is placed on the sides of the main bar, and the space is formed by the distance of the horizontal bar. A frame is placed on both sides of the shelf, and a vertical groove is on both ends. The groove can be connected to the main and secondary bars. By so doing, each shelf and two vertical side racks do not have to use other components to be positioned and are compatible with a common extension, such as vertical side rack, to make the invention more practical.